



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

Address: COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, Virginia 22313-1450

www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/798,395	03/12/2004	Sandy Chu	4444-0139PUS1	6035
2292 7590 05/30/2008 BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747				
EXAMINER DANG, HUNG Q				
ART UNIT 2621		PAPER NUMBER		
NOTIFICATION DATE 05/30/2008		DELIVERY MODE ELECTRONIC		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

### Office Action Summary

**Application No.**

10/798,395

**Applicant(s)**

CHU, SANDY

**Examiner**

HUNG Q. DANG

**Art Unit**

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 02 April 2008.  
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-17, 19 and 20 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 1-17, 19 and 20 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.  
10) ☒ The drawing(s) filed on 12 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☐ Information Disclosure Statement(s) (PTO/S508)  
Paper No(s)/Mail Date \_\_\_\_\_  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_  
5) ☐ Notice of Informal Patent Application  
6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Response to Arguments***

Applicant's arguments filed 04/02/2008 have been fully considered but they are not persuasive.

At page 9, Applicant argues that "the overlap in the present invention is formed by the first extended video clip and the second extended video clip ..., rather than the first video clip (a portion of A) and the second video clip (a portion of B)" and "the overlapping portions between the present invention and Sakai et al. are different." In response, the Examiner respectfully submits that the first extended video clip is the portion of A after the first cut of X1 and the second extended video clip is the portion of B that is before the second cut of X1, or vice versa (see Fig. 4F and Fig. 4G). These two extended video clips are generated to form the overlapping portion X1. The way that X1 is constructed is as follows: the first extended video clip extended backward from the end of said first video clip and the second extended video clip extended forward from the beginning of said second video clip because the effect is a wipe operation, in which the contributions of each extended video clips are determined using weighting factors ([0046]; [0064]). For that reason, the overlapping portion disclosed by Sakai anticipates that recited in the claimed invention.

It is noted that the first cut of X1 in Sakai corresponds to the "specific time stamp" recited in the claim.

At page 10, Applicant argues that Sakai does not disclose the limitation of "only the second video clip is moved to the second data track and keeping said first video clip in said first data track." In response, the Examiner respectfully disagrees. Referring to Fig. 4A, the first video clip is the portion of A that is before the first cut X1, the second video clip is the portion of A that is after the first cut X1. During the processing to make the overlapping portion X1, the second video clip is read into memory for processing because it contributes into X1 and recorded at a different location ([0066]) while the first video clip (the portion of A that is before the first cut of X1) is kept original and not altered ([0069]).

At pages 11-12, Applicant argues that "Thier et al. merely disclose frame-freeze is used to freeze a frame of video signal and signals which control various conventional effects but frame-freeze is not used to extend the video effect according to the last frame of the first video clip." In response, the Examiner respectfully disagrees because when a frame is frozen, the effect of having the same frame is extended (the same frame is kept being shown for an extended period of time). Also, if we consider a virtual video clip associated with the video segment including the frames before the frozen frame and having the frozen frame as the last frame, then it is clearly to extend the video effect according to the last frame of the video clip.

For that reason, the claims are rejected as previously presented.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

**Claims 1-2 and 11-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Sakai et al. (US 2003/0012550).**

Regarding claim 1, Sakai et al. disclose a method for effect addition within a single multimedia clip (Fig. 4A; [0046]; [0049]), comprising: importing a multimedia clip into a first data track ([0061]), said multimedia clip including a video clip and an audio clip ([0056]; [0057]); assigning a specific time stamp and an effect duration ([0061]; [0025]; Fig. 3; Fig. 4), said specific time stamp being within the effect duration ([0061]); dividing said multimedia clip according to said specific time stamp ([0062]; Fig. 4), wherein said video clip is divided into a first video clip before said specific time stamp and a second video clip after said specific time stamp (Fig. 4; [0062]; [0063]); moving said second video clip to a second data track and keeping said first video clip in said first data track, wherein the beginning of said second video clip being at the specific time stamp in said second data track ([0062]; [0063]; also see "Response to Arguments" above); generating a first extended video clip and a second extended video clip to form an overlap according to said effect duration ([0064]; also see "Response to Arguments" above), wherein said overlap being between said first extended video clip extended

backward from the end of said first video clip and said second extended video clip extended forward from the beginning of said second video clip ([0064]; Fig. 4; also see "Response to Arguments" above); and performing an effect addition, wherein said effect addition adding an effect within said overlap ([0064]; Fig. 4).

Regarding claim 2, Sakai et al. also disclose said audio clip is divided into a first audio clip and a second audio clip when said video clip is divided, and said second audio clip is moved to said second data track when said second video clip is moved ([0056]; [0057]; [0075]; [0076]).

Claim 11 is rejected for the same reason as discussed in claim 1 above.

Claim 12 is rejected for the same reason as discussed in claim 2 above.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

**Claims 3, 4, 13, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakai et al. (US 2003/0012550) as applied to claims 1-2 and 11-12 above, and further in view of Thier et al. (US Patent 5,410,644).**

Regarding claim 3, see the teachings of Sakai et al. as discussed in claim 1 above. However, Sakai et al. do not disclose said first extended video clip is extended by freezing frame according to the last frame of said first video clip.

Thier et al. disclose a video special effect by freezing a frame according to the last frame of a video clip (column 15, lines 45-49 by considering a virtual video clip associated with the video segment including the frames before the frozen frame and having the froze frame as the last frame; also see "Response to Arguments" above).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the frame freezing disclosed by Thier et al. into the method disclosed by Sakai et al. to implement a special effect, which would enhance the user interface of the method.

Regarding claim 4, see the teachings of Sakai et al. as discussed in claim 1 above. However, Sakai et al. do not disclose said second extended video clip is extended by freezing frame according to the first frame of said second video clip.

Thier et al. disclose a video special effect by freezing a frame according to first frame of a video clip (column 15, lines 45-49 by considering a video clip associated with the video segment including the froze frame as the first frame and the frames following the frozen frame).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the frame freezing disclosed by Thier et al. into the method disclosed by Sakai et al. to implement a special effect, which would enhance the user interface of the method.

Claim 13 is rejected for the same reason as discussed in claim 3 above.

Claim 14 is rejected for the same reason as discussed in claim 4 above.

**Claims 5, 6, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakai et al. (US 2003/0012550) as applied to claims 1-2 and 11-12 above, and further in view of Windle (US Patent 6,686,970).**

Regarding claim 5, see the teachings of Sakai et al. as discussed in claim 1 above. Further, Sakai et al. also disclose said first extended video clip is generated according to the portion of said second clip within said overlap (Fig. 4). However, Sakai et al. do not disclose said first extended video clip is extended by duplicating video continuous frames.

Windle discloses a special effect by extending a video clip by duplicating video continuous frames (column 10, lines 57-63).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the duplicating of video continuous frames disclosed by Windle into the method disclosed by Sakai et al., to extend the first extended video clip to, according to Windle, effect a smooth synchronized transition (column 10, lines 57-63).

Regarding claim 6, see the teachings of Sakai et al. as discussed in claim 1 above. Further, Sakai et al. also disclose said second extended video clip is generated according to the portion of said first clip within said overlap (Fig. 4). However, Sakai et al. do not disclose said second extended video clip is extended by duplicating video continuous frames.

Windle discloses a special effect by extending a video clip by duplicating video continuous frames (column 10, lines 57-63).



One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the duplicating of video continuous frames disclosed by Windle into the method disclosed by Sakai et al., to extend the second extended video clip to, according to Windle, effect a smooth synchronized transition (column 10, lines 57-63).

Claim 15 is rejected for the same reason as discussed in claim 5 above.

**Claims 7 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakai et al. (US 2003/0012550) as applied to claims 1-2 and 11-12 above, and further in view of Peters et al. (US Patent 5,440,348).**

Regarding claim 7, see the teachings of Sakai et al. as discussed in claim 1 above. However, Sakai et al. do not disclose the best size of said first extended video clip and said second extended video clip are respectively half of said effect duration.

Peters et al. disclose an effect transition by centerpoint, in which the best size of a first extended video clip and a second extended video clip in an effect transition are respectively half of said effect duration (column 1, lines 40-45).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the transition by its centerpoint disclosed by Peters et al. into the method disclosed by Sakai et al. as a choice of implementation for a special effect.

Claim 20 is rejected for the same reason as discussed in claim 7 above.

**Claims 8-9 and 16-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakai et al. (US 2003/0012550) as applied to claims 1-2 and 11-**

**12 above, and further in view of Windle (US Patent 6,686,970) and Barton et al. (US Patent 6,233,389).**

Regarding claim 8, see the teachings of Sakai et al. as discussed in claim 1 above. Further, Sakai et al. also disclose said first extended video clip is generated according to the portion of said second clip within said overlap (Fig. 4). However, Sakai et al. do not disclose said first extended video clip is extended by reversing and duplicating video continuous frames and said first extended video clip is generated according to the reverse of the portion of said first video clip within said overlap.

Windle discloses a special effect by extending a video clip by duplicating video continuous frames (column 10, lines 57-63).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the duplicating of video continuous frames disclosed by Windle into the method disclosed by Sakai et al., to extend the first extended video clip to, according to Windle, effect a smooth synchronized transition (column 10, lines 57-63).

However, the proposed combination of Sakai et al. and Windle does not disclose reversing the frames.

Barton et al. disclose a special effect of reversing the frames (column 6, lines 40-43).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the reversing of frames disclosed by Barton et al. into the

method disclosed by Sakai et al. and Windle to implement the special effect of reversing and duplicating video continuous frames as a choice of implementation.

Regarding claim 9, see the teachings of Sakai et al. as discussed in claim 1 above. Further, Sakai et al. also disclose said second extended video clip is generated according to the portion of said first clip within said overlap (Fig. 4). However, Sakai et al. do not disclose said second extended video clip is extended by reversing and duplicating video continuous frames and said second extended video clip is generated according to the reverse of the portion of said second video clip within said overlap.

Windle discloses a special effect by extending a video clip by duplicating video continuous frames (column 10, lines 57-63).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the duplicating of video continuous frames disclosed by Windle into the method disclosed by Sakai et al., to extend the second extended video clip to, according to Windle, effect a smooth synchronized transition (column 10, lines 57-63).

However, the proposed combination of Sakai et al. and Windle does not disclose reversing the frames.

Barton et al. disclose a special effect of reversing the frames (column 6, lines 40-43).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the reversing of frames disclosed by Barton et al. into the

method disclosed by Sakai et al. and Windle to implement the special effect of reversing and duplicating video continuous frames as a choice of implementation.

Claim 16 is rejected for the same reason as discussed in claim 8 above.

Claim 17 is rejected for the same reason as discussed in claim 9 above.

**Claims 10 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakai et al. (US 2003/0012550) as applied to claims 1-2 and 11-12 above, and further in view of Chen et al. (US Patent 6,600,869).**

Regarding claim 10, see the teachings of Sakai et al. as discussed in claim 1 above. Further, Sakai et al. also disclose said first video clip and said second video clip are produced by fading in and fading out ([0049]). However, Sakai et al. do not disclose said first extended video clip and said second extended video clip are separately produced by fading in and fading out a default color.

Chen et al. disclose a video clip is extended by fading in and fading out a default color (column 5, lines 7-11).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the fading in and fading out a default color disclosed by Chen et al. into the method disclosed by Sakai et al. to implement a special effect of fading in and fading out a default color as a choice of implementation.

Claim 19 is rejected for the same reason as discussed in claim 10 above.

### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUNG Q. DANG whose telephone number is (571)270-1116. The examiner can normally be reached on M-Th:7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Hung Q Dang/  
Examiner, Art Unit 2621

/Thai Tran/  
Supervisory Patent Examiner, Art Unit 2621